

GEODESIGN
INCORPORATED

Geotechnical / Construction / Environmental Engineers and Scientists
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BORING LOG

Project Name

Hancock ER BRF 0174(16)
Route 125
Hancock, Vermont

Boring No.: B-1

Page No.: 1 of 2

File No.: 750-09.4

Checked By: DTH

Boring Company: Trons Tech Drilling Services

Foreman: John Leonhardt

GeoDesign Rep.: Don Howey/Joshua Gilman

Date Started: February 13, 2012 Date Finished: February 14, 2012

N. Coordinate: _____ E. Coordinate: _____

Ground Surface Elevation (feet): 1046.5

Station: 268+16 Offset: 4 ft Right

Depth (ft)	Casing Blows/ft	Number	Type	Penetration (lb/inch)	Recovery (lb/inch)	Blows / 6 inch Interval				Coring Time (min./ft)	Moisture Content (%)	Strata Description	Symbol	Sample Description
						0 - 6	6 - 12	12 - 18	18 - 24					
						Blows / 6 inch Interval								
51	SS	7	6	0.5	74	50/1"								
52	SS	7	7	2	64	50/1"								
53	SS	14	6	5	20	25	50/2"							
54	SS	24	13	7	8	40	38	46						
55	SS	16	6	10	10	13	60/4"							
56	SS	24	13	12	6	9	31	21						
57	SS	10	7	15	24	60/4"								
58	SS	24	24	17	3	2	2	2						
59	SS	24	8	20	3	2	1	2						
60	SS	24	18	25	3	2	2	2						
61	SS	24	20	30	2	3	3	5						

1) Exploration location was estimated in the field by GeoDesign by tapping to existing features. Ground surface elevation is approximate and is based on an email from Virans dated 2/28/12. Stream bed was approximately 16' below temporary bridge surface.

2) Hollow stem auger advance slow and grinding observed from 0' to 2' deep.

3) Driller switched to 4" flush joint casing and wash rotary methods after sampling S2. Relative moisture observations are likely to be affected by drill method.

4) Observed decreased resistance to casing advance of approximately 16.5' deep.

5) End day 1 after sampling S11.

1) Identification Lines Represent Approximate Boundary Between Material Types. Transitions May Be Gradual.

2) Water Level Readings Show Water Table At Time and Under Conditions Stated. Fluctuations Of Groundwater May Occur Due To Other Factors Than Those Presented At The Time Measurements Were Made.

3) S.C. = After soaking; S.B. = Not Soaked.

4) Sample Type Coding: A=Auger; C=Coring; D=Drill; E=Electric; F=Fall; G=Gravity; H=Hand; I=Impact; J=Jet; K=Jet; L=Jet; M=Jet; N=Jet; O=Jet; P=Jet; Q=Jet; R=Jet; S=Jet; T=Jet; U=Jet; V=Jet; W=Jet; X=Jet; Y=Jet; Z=Jet.

5) Penetration Test: 1-1000, 1000-1500, 1500-2000, 2000-2500, 2500-3000, 3000-3500, 3500-4000, 4000-4500, 4500-5000, 5000-5500, 5500-6000, 6000-6500, 6500-7000, 7000-7500, 7500-8000, 8000-8500, 8500-9000, 9000-9500, 9500-10000.

6) Identification Lines represent approximate boundary between material types. Transitions may be gradual.

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52	SS	24	14	45	15	10	9	14							
53	SS	24	24	40	WOH	2	3	3							
54	SS	24	14	50	25	15	15	16							
55	C	48	36	52											
56	C	60	60	56											
57	C	60	60	56											
58	C	60	60	56											
59	C	60	60	56											
60	C	60	60	56											
61	C	60	60	56											
62	C	60	60	56											
63	C	60	60	56											
64	C	60	60	56											
65	C	60	60	56											
66	C	60	60	56											
67	C	60	60	56											
68	C	60	60	56											
69	C	60	60	56											
70	C	60	60	56											

6) Driller noted increase grinding of roller bit at 43' deep.

7) Borehole collapsed approximately 4' between roller bit advance to 50' and attempting split spoon sample 50' to 52' deep. Driller telescoped 3" casing to 50' to collect sample S15 and resume advance.

8) Casing and roller bit refusal at 52' deep. Attempt core C1.

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SMALL REMARK FONT STANDARD: 750-09.4-HANCOCK ER BRF 0174(16).CP1 GEODESIGN STANDARD.DOT 12/12/15

